

Date: Wed, 4 May 94 04:09:13 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #486
To: Info-Hams

Info-Hams Digest Wed, 4 May 94 Volume 94 : Issue 486

Today's Topics:

Daily Summary of Solar Geophysical Activity for 03 May
Gun Owners: Protect your Rights! (2 msgs)
Heil 4 or 5 element??
Looking for big heatsink supplier
Mobile Antenna Experience
New FCC amateur radio licenses
Recip. amateur licenses in BVI and UK
Six Meter Opening on Saturday
Spectrum Show 30 Apr 94
still looking for project ideas
Straight Key Night
Vertical Antenna Recommendations?DIR

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 4 May 94 04:08:29 GMT
From: agate!usenet.ins.cwru.edu!eff!news.duke.edu!godot.cc.duq.edu!
nntp.club.cc.cmu.edu!news.mic.ucla.edu!unixg.ubc.ca!quartz.ucs.ualberta.ca!
alberta!ve6mgs!usenet@ucbvax.berkeley.edu
Subject: Daily Summary of Solar Geophysical Activity for 03 May
To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

03 MAY, 1994

(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 03 MAY, 1994

NOTE: Energetic electrons at greater than 2 MeV have become enhanced at geosynchronous altitudes. Electrons reached high levels near 20:00 UTC. Elevated electron fluxes may persist through to 16 or 17 May.

```
!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 123, 05/03/94
10.7 FLUX=074.4  90-AVG=089          SSN=052          BKI=5654 3333  BAI=032
BGND-XRAY=A1.0    FLU1=8.3E+04  FLU10=1.3E+04  PKI=6765 4333  PAI=045
  BOU-DEV=087,162,108,057,037,034,026,023  DEV-AVG=066 NT      SWF=00:000
  XRAY-MAX= A8.5   @ 1356UT    XRAY-MIN= A1.0   @ 2219UT    XRAY-AVG= A2.4
NEUTN-MAX= +002%  @ 2245UT    NEUTN-MIN= -003%  @ 1150UT    NEUTN-AVG= -0.2%
  PCA-MAX= +0.2DB @ 2100UT    PCA-MIN= -0.3DB @ 0245UT    PCA-AVG= +0.0DB
BOUTF-MAX=55380NT @ 0026UT    BOUTF-MIN=55293NT @ 1812UT    BOUTF-AVG=55322NT
GOES7-MAX=P:+000NT@ 0000UT    GOES7-MIN=N:+000NT@ 0000UT    G7-AVG=+072,+000,+000
GOES6-MAX=P:+127NT@ 1659UT    GOES6-MIN=N:-145NT@ 0310UT    G6-AVG=+091,+036,-056
  FLUXFCST=STD:075,075,075;SESC:075,075,075  BAI/PAI-FCST=020,020,020/028,025,025
    KFCST=5555 5111 5555 5111  27DAY-AP=043,036  27DAY-KP=5566 5544 5565 4334
  WARNINGS=*GSTRM;*AURMIDWRN
    ALERTS=**MINSTRM
!!END-DATA!!
```

NOTE: The Effective Sunspot Number for 02 MAY 94 was 25.0.
 The Full Kp Indices for 02 MAY 94 are: 5+ 6o 5o 4o 4- 3o 4- 6-
 The 3-Hr Ap Indices for 02 MAY 94 are: 54 79 45 28 22 15 22 67
 Greater than 2 MeV Electron Fluence for 03 MAY is: 2.5E+08

SYNOPSIS OF ACTIVITY

Solar activity was very low. No flares were observed in the last 24 hours.

Solar activity forecast: solar activity is expected to be very low.

The geomagnetic field ranged from unsettled to major storm levels. The last 24 hours have been typical of the last two days: mostly minor storm levels at mid-latitudes with periods

of major storm at high latitudes were observed from 02/2100Z through about 1200Z; conditions declined to unsettled levels with active periods at high latitudes for the remainder of the period.

STD: Electrons at greater than 2 MeV have again become enhanced. The enhancement began roughly near 14:00 UTC. Electrons approached or reached high levels at geosynchronous altitudes at about 20:00 UTC. Based on recurrence, this disturbance may last through to 16 or 17 May. Overall fluence levels were moderate.

Geophysical activity forecast: the geomagnetic field is expected to persist over the next three days in a similar pattern to today. Generally active conditions with periods of storming are likely during local nighttimes and unsettled to active conditions are expected during the daytime hours.

Event probabilities 04 may-06 may

Class M	01/01/01
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 04 may-06 may

A. Middle Latitudes

Active	40/30/25
Minor Storm	35/30/35
Major-Severe Storm	05/10/10

B. High Latitudes

Active	30/30/30
Minor Storm	45/35/35
Major-Severe Storm	10/10/10

HF propagation conditions continued below normal for high and polar latitude signal paths. Middle latitude paths experienced periodic below-normal propagation with slightly below-normal daytime propagation. MUFs from the polar to middle latitude paths have been depressed between 15 and 35 percent. Conditions are expected to continue below-normal throughout at least the next 72 hours.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

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REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 03/2400Z MAY

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7713	N07E13	292	0020	CRO	05	007	BETA	
7714	S14E22	283	0000	AXX	00	001	ALPHA	
7715	N08W57	002	0020	HRX	01	002	ALPHA	
7717	S07W13	318	0000	AXX	00	002	ALPHA	
7711	S11W32	337					PLAGE	
7712	S11W20	325					PLAGE	
7716	N02W27	332					PLAGE	

REGIONS DUE TO RETURN 04 MAY TO 06 MAY

NMBR	LAT	LO
7700	N03	208

LISTING OF SOLAR ENERGETIC EVENTS FOR 03 MAY, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
NONE									

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 03 MAY, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
03/ 1830		1834	S01E36	DSF				

INFERRED CORONAL HOLES. LOCATIONS VALID AT 03/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS									
	EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
78	S40E45	S60W08	S40W53	S22W35	308	EXT	NEG	037	10830A
80	N40E17	N34W01	N40W03	N48E09	298	ISO	POS	004	10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
02 May:	B0445	U0446	A0449		SF	7713	N05E36			

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

C	M	X	S	1	2	3	4	Total	(%)
---	---	---	---	---	---	---	---	-------	-----

	--	--	--	--	--	--	--	--	---	-----
Region 7713:	0	0	0	1	0	0	0	0	001	(100.0)
Uncorrelated:	0	0	0	0	0	0	0	0	000	(0.0)

Total Events: 001 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations

NO EVENTS OBSERVED.								

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

** End of Daily Report **

Date: 03 May 1994 21:09:38 GMT
 From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!noc.near.net!
 info-server.bbn.com!news!levin@network.ucsd.edu
 Subject: Gun Owners: Protect your Rights!
 To: info-hams@ucsd.edu

In article <1994May3.123759.1093@gtewd.mtv.gtegsc.com> reina@gtewd.mtv.gtegsc.com
 writes:
 [deleted]

Please keep this stuff off the radio newsgroups where it does not belong.

Date: 3 May 1994 23:15:16 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!hpscit.sc.hp.com!icon!hpchase.rose.hp.com!cmoore@network.ucsd.edu
Subject: Gun Owners: Protect your Rights!
To: info-hams@ucsd.edu

reina@gtewd.mtv.gtegsc.com wrote:
: Gun owners protect your constitutional rights!

Thank you for posting this to the wrong newsgroup. If you had put it in the appropriate gun-related newsgroup, I wouldn't have known about it. Now I can call my Congressman and urge him to vote YES on any bill that bans assault rifles.

Date: 3 May 1994 22:00:11 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!news.cac.psu.edu!news.pop.psu.edu!psuvax1!news.cc.swarthmore.edu!netnews.upenn.edu!eniac.seas.upenn.edu!depolo@network.ucsd.
Subject: Heil 4 or 5 element??
To: info-hams@ucsd.edu

In article <2q4b7l\$hvp@brahms.udel.edu> penneys@brahms.udel.edu (Robert Penneys) writes:

>Do you prefer the Heil 4 or 5 element?
>

>My primary interest in using a mike at all is HF contesting. I would assume
>that the 4 would be the ticket, but I have heard the 5 recommended too.

I have three Heil headsets. Two of the open-air style jobs, one with the #4 and one with the #5. I also have the newer closed-style headset with the #5 element. I think overall, I like the #5, even for contesting. I typically run about 10 dB of compression, and it seems that with the compression on, that the wider frequency response element is more noticeable in a pileup. Maybe it lacks the (industry buzzword follows) "punch" that the DX element has, but from what I hear listening to myself on the monitor and on the DVR, I like the #5 better. Rig on this end is also a TS-940.

>Bob Penneys, WN3K Frankford Radio Club Internet: penneys@pecan.cns.udel.edu
>Work: Ham Radio Outlet (Delaware) (800) 644-4476; fax (302) 322-8808

>Mail at home: 12 East Mill Station Drive Newark, DE 19711 USA

Cool callsign, by the way. :-)

--- Jeff

--

Jeff DePolo WN3A Twisted Pair: (215) 337-7383H 387-3059W
depolo@eniac.seas.upenn.edu RF: 443.800+ MHz 442.400+ MHz 24.150 GHz

Date: Tue, 3 May 1994 21:16:00 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!usenet.ins.cwru.edu!
news.csuohio.edu!sww@network.ucsd.edu
Subject: Looking for big heatsink supplier
To: info-hams@ucsd.edu

Jeff Depolo (depolo@eniac.seas.upenn.edu) wrote:
: What I'm looking for is a number of large heat sinks for home-brew high
: power solid state power amplifiers. The PA's will be rack mounted, so
: something that would be 19"W x 24"H x 4"D when rack-mounted would be in
: the ballpark. Anybody know of any good suppliers of big heatinks?

While in Dayton I visited Mendelson Electronics (800-344-4465). They had
dozens of large sinks. As a surplus supply, meeting some exact specs would
be too difficult. I bet, however, the request for a "large heatsink about
19 by 24 by 4" would yield a price.

73,
Steve

N08M@N08M.#NEOH.OH.USA.NA
ag807@cleveland.freenet.edu

Date: Mon, 2 May 1994 18:58:00 GMT
From: ihnp4.ucsd.edu!usc!elroy.jpl.nasa.gov!grian!pelican!ent-img.com!wb6hqk!
bart@network.ucsd.edu
Subject: Mobile Antenna Experience
To: info-hams@ucsd.edu

>

>>some more while driving to Dayton this last weekend. A while ago
>>some one had posted a comparison of a bunch of mobile antennas which
>>rated them based on field strength measurements. The outbacker was
>>dead last and the bugcatcher first - with a factor of 50 or so. That is
>>17db!

>>
>
>If someone saved this, could you please e-mail or post it? I've been looking
>for just this data while trying to decide if/how to replace my roof-mounted
>hustler antenna.
>
Ditto for me. Maybe it's worth reposting?

bart wb6hqq

bart@wb6hqq.ent-img.com

Date: 3 May 1994 15:00 CDT
From: ncar!newsxfer.itd.umich.edu!zip.eecs.umich.edu!panix!ddsw1!news.kei.com!eff!
news.duke.edu!news-feed-1.peachnet.edu!emory!swrinde!news.uh.edu!elroy.uh.edu!
st3qi@ames.arpa
Subject: New FCC amateur radio licenses
To: info-hams@ucsd.edu

In article <Cp8EKI.2Ju@ra.nrl.navy.mil>, drumhell@claudette.nrl.navy.mil (David Drumheller) writes...

> I've noticed that the recent amateur radio licenses come in two parts:
>the traditional wallet document, and one that can be framed to be hung in
>the shack. I was last issued a license in 1990 that was printed with an
>impact printer, and it's a little hard to read. It appears that the new
>licenses are laser printed.

>
> Question: Can I ask the FCC for the new license? I'd like to get the
>part you can frame. (Somehow I feel the answer is going to be 'no.')

>
>-Dave

>--
>David Drumheller, KA3QBQ phone: (202) 767-3524
>Acoustics Division, Code 7140 fax: (202) 404-7732
>Naval Research Laboratory
>Washington, DC 20375-5350 e-mail: drumhell@claudette.nrl.navy.mil

Yes, you can. My old impact license was set to expire in 1998, but I wanted a good looking laser-printed license, so I sent in for a renewal. This was two years ago when I did thig. I recieved back a great looking license with a new expiration date set for Feb. 14, 2002.

Just send in a 610, a copy of your current license, and check the box that says "renew" license.

Date: 3 May 94 14:55:52 CDT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!agate!msuinfo!uchinews!cdsmaill!
timbuk.cray.com!walter.cray.com!sedist!jwl@network.ucsd.edu
Subject: Recip. amateur licenses in BVI and UK
To: info-hams@ucsd.edu

I have a couple of questions on recip. licensing. My wife will be travelling on business to England this summer and wondered if she should take her hand held with her? She is a tech plus. What arrangements does she have to make to do so and will her radio (2 meter) cover the frequencies/shifts/tones used in the U. K.?

Second question. We are probably going to charter a sailboat in the Virgin Is. this summer and the same question comes up. How do we get recip. licensing privileges in the Brit. Virgin Is. ??

Thanks,

Jim.

Jim Lynch, Sales Analyst, Cray Research, Inc. / ARS: K4GVO
Southeast District, Phone: (404) 631-2254, Email: jwl@sedist.cray.com
Suite 270, 200 Westpark Drive, Peachtree City, GA 30269
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Jim Lynch, Sales Analyst, Cray Research, Inc. / ARS: K4GVO
Southeast District, Phone: (404) 631-2254, Email: jwl@sedist.cray.com
Suite 270, 200 Westpark Drive, Peachtree City, GA 30269

Date: Tue, 3 May 1994 21:22:55 GMT
From: yuma!galen@purdue.edu
Subject: Six Meter Opening on Saturday
To: info-hams@ucsd.edu

In article <2q65f5\$cvb@bigblue.oit.unc.edu> cheech@med.unc.edu (Greg Young) writes:

>I flipped on my old Mastr Pro about 8:00 PM EDT and a few minutes
>later it began to burp as some weak signals broke the squelch on
>52.525. Within ten minutes traffic was getting heavy and after about
>an hour the radio settled into a screech and roar pattern as everyone
>tried to talk at once. This lasted for about half an hour before I
>finally started hearing one side of two or three conversations at a
>time. Once I even heard both sides of a QSO.
>The band finally died about midnight and has been dead ever since when

>I was listening. The sporadic E season has arrived.

Try around 50.125 USB. It's been open off and on for a couple weeks now. I worked Florida from Colorado, and I've heard Ore and Wash occasionally. galen, KF0YJ, DN70

Date: 3 May 94 23:28:33 GMT
From: agate!usenet.ins.cwru.edu!eff!news.kei.com!bloom-beacon.mit.edu!
usenet.elf.com!sundog.tiac.net!news.sprintlink.net!news.dorsai.org!
bigsteve@ucbvax.berkeley.edu
Subject: Spectrum Show 30 Apr 94
To: info-hams@ucsd.edu

In article <2q0qee\$kb5@docman.doc.state.ne.us>, Gary McDuffie wrote:

> The real question is: What's this trash doing in this news group?
>
> Before you go off the deep end, remember the definition of trash. It is
> the same as weed. A rose is a weed if it's in the middle of the lawn. It's
> simply in the wrong place.

That rose may be a weed if it's in the middle of the garden, but if you look at the entire garden from afar, you won't be able to tell it's out of place.

>
> I have nothing against this posting except that it has nothing to do with
> this group. There are other places for it, especially when it is lengthy.

A valid inquiry, and one that deserves an answer. Now don't take this personally, but there are others who aren't as mature here. After having been flamed in the past for off topic material, I am not waiting to go on the defensive, I am taking the bull by the horns. It's not intended for you, but for some others who haven't spoken up yet, or those that did, and I didn't get their replies. (Our sysadmin decided to knock off a few hackers so they letter bombed our spool and we lost a couple of megs of mail, undoubtedly a few KB's were mine).

My weekly comentaries on Spectrum will deal with all aspects of communication. Because of the cross interest most Hams have, and the posability of not everyone who is interested having access to all the newsgroups, I will crosspost them here. If you have a good reader, you will only see it once. But if you check r.r.a.misc first, it will only seem like it's in the wrong place whenever the commentary has nothing to do with amateur radio.

I see no objections to my posting of Newslines each week? (Actually, I don't post it directly to avoid duplication, Mark automatically crossposts

sol.ctr.columbia.edu!usenet.ucs.indiana.edu!vunews.valpo.edu!exodus.valpo.edu!
acc_mwb@network.ucsd.edu
Subject: still looking for project ideas
To: info-hams@ucsd.edu

I am currently finishing my junior year in electrical engineering. Next year, I will be working on a "senior project" with at least one other student. Taking a look ahead, we're trying to figure out some options for projects that we could do.

We'd like it to be in the are of electronics. Audio applications, signal processing, waveform modification, signal generation, filtering, etc. I don't know what else... so many different things, we hardly know where to start.

Other options that we'd like to consider are those in the communication electronics area. We'll be having communic. theory and electronics classes next year, so right now, we don't have much to go on in that area. I am an amateur radio operator. Something dealing with that would be really great!

Other areas of interest that might generate a good project would me some digital / electronics combination, applications dealing w/ transistors as switching (not in a power situation, but rather small things).

This project lasts two semesters. In the fall we finalize our project. Write up some designs, present the project, make a "project request" or something like that. Then, by Dec., have it ready to put together. Starting in Jan., we build a prototype, fix it, get it to work (ie. re-design and re-design and..). Finally, we'll end the semester by writing final reports, documentation and doing more presentations.

We'd like any ideas for projects that you think would be interesting, obtainable, and fit the idea of this "senior project."

___PLEASE___ if you've got any ideas, send some email to me. Just give us a couple of ideas that you might have. I'll post a summery to the list if I get some responses.

--

Mike ---
 (o o)

-----m-^-m-----

Date: 2 May 94 11:49:48 EDT
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!swrinde!sgiblab!wetware!
spunky.RedBrick.COM!psinntp!psinntp!main03!landisj@network.ucsd.edu
Subject: Straight Key Night

To: info-hams@ucsd.edu

In article <1994Apr29.020402.6365@galileo.cc.rochester.edu>,
bstp_ltd@uhura.cc.rochester.edu (Stamp) writes:

> I read an article in last months QST (April) about Straight Key Night. The
> article didn't mention when this event happens or even if it still does. Does
> anyone know when this event occurs, since I do like cw I would be interesting
> in working people during that time. Any information is welcome.

>

> Brian Stamper bstp_ltd@uhura.cc.rochester.edu

> KB4JPO

>

>

I think straight key night is New Years Eve.

Joe - AA3GN

--

Joe Landis - System & Network Mgr. - North American Drager Co.
landisj@drager.com | uupsi5!main03!landisj | AA3GN @ WB3JOE

Date: 3 May 94 09:00:43 -0600

From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!darwin.sura.net!
atlas.tntech.edu!jmg@network.ucsd.edu

Subject: Vertical Antenna Recommendations?DIR

To: info-hams@ucsd.edu

I would recommend the Gap Vertical.. have had one for a while, a
very satisfied ham recommended it to me (my elmer) works very well

73

Jeff, AC4HF

Date: Mon, 2 May 1994 22:44:24 GMT

From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!zip.eecs.umich.edu!
panix!ddsw1!news.kei.com!wang!dbushong@network.ucsd.edu

To: info-hams@ucsd.edu

References <2pkh54\$d4@vortex.eng.sc.rolm.com>, <CoxAE3.1nI@hpcvsnz.cv.hp.com>,
<2pp3rk\$dn8@vortex.eng.sc.rolm.com>n

Subject : Re: personal autopatch calls

montp@vortex.eng.sc.rolm.com (Mont Pierce) writes:

>In article <CoxAE3.1nI@hpcvsnz.cv.hp.com>, Tom Bruhns <tomb@lsid.hp.com> wrote:

>>Mont Pierce (montp@vortex.eng.sc.rolm.com) wrote:

>>

>>: ... the jest of the changes is as follows:

>> ^You aren't kidding us, are you? ;-)

>I wondered if anyone was going to notice. Of course I meant "gest"!!

^^^^

After a pregnant pause, Dave said "You meant 'gist', right?"

Dave, KZ10

--

Dave Bushong, Wang Laboratories, Inc.

End of Info-Hams Digest V94 #486
